

Amendments to the Claims:

This Listing of the Claims replaces all prior versions and listings of the claims in this application.

Listing of the Claims:

Claim 1 (Previously Presented): Pressurisable container for storing and ejecting liquid, the container comprising a) a front wall having or surrounding a cavity corresponding to the form of an open vessel, b) an opening in the front wall adapted for ejection of the liquid from the container, said opening defining a container axis, c) optionally a sealing over the opening adapted for temporary use, and d) a rear wall closing and sealing the open part of the front wall vessel to confine a space for the liquid in the container, the rear wall running at least partially perpendicular to the container axis and being displaceable or deformable for movement towards the opening to pressurize the container liquid, wherein

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the front wall is substantially rigid in relation to the rear wall,
the rear wall before pressurizing the container is substantially flat or substantially single curved, and

the rear wall is deformable under stretching to substantially fill out the container cavity.

Claim 2 (Previously Presented): The container of claim 1, wherein the cavity has the form of a generally concave deepening when seen from the rear wall side.

Claim 3 (Currently Amended): The container of claim 1, wherein the cavity has little, and preferably or no, undercut parts when seen from the rear side.

Claim 4 (Previously Presented): The container of claim 1, wherein the front wall has a roughly constant thickness when measured normal to the cavity surface towards the front wall.

Claim 5 (Previously Presented): The container of claim 1, wherein the front wall has thickness, as measured normal to the cavity surface towards the front wall, increasing in a direction away from the axis.

Claim 6 (Previously Presented): The container of claim 1, wherein the front surface of the front wall is substantially flat or substantially single-curved, at least in the area around the opening.

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Claim 7 (Previously Presented): The container of claim 1, wherein the rear surface of the front wall is substantially single-curved, at least in the area around the cavity.

Claim 8 (Previously Presented): The container of claim 1, wherein the front and rear surfaces of the front wall adjacent the cavity are substantially parallel or concentric.

Claim 9 (Previously Presented): The container of claim 8, wherein the front wall has an overall shape of a plate or a cylinder part.

Claim 10 (Currently Amended): The container of claim 1, wherein the opening ~~duet~~ has a cross-section which is one of roughly constant, roughly converging, roughly diverging or a combination thereof.

Claim 11 (Previously Presented): The container of claim 1, wherein the opening is designed to assist in atomizing the liquid.

Claim 12 (Previously Presented): The container of claim 1, wherein the opening is designed to assist in forming a coherent linear liquid stream.

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Claim 13 (Currently Amended): Pressurisable container for storing and ejecting liquid, the container comprising a) a front wall having or surrounding a cavity corresponding to the form of an open vessel, b) an opening in the front wall adapted for ejection of the liquid from the container, said opening defining a container axis, c) optionally a sealing over the opening adapted for temporary use, and d) a rear wall closing and sealing the open part of the front wall vessel to confine a space for the liquid in the container, the rear wall running at least partially perpendicular to the container axis and being displaceable or deformable for movement towards the opening to pressurize the container liquid, wherein

the front wall is substantially rigid in relation to the rear wall,

the rear wall before pressurizing the container is substantially flat or substantially single curved,

the rear wall is deformable under stretching to substantially fill out the container cavity, and

~~The container of claim 1, wherein~~ the front wall front side has a cut-out area around the opening.

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Claim 14 (Previously Presented): The container of claim 1, wherein the container is connected to at least one other container to form a multiple container unit.

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Claim *16* (Previously Presented): The container of claim *14*, wherein the front wall
surfaces of several containers are arranged in the same flat or single-curved plane.

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Claim *16* (Previously Presented): The container of claim *15*, wherein the front wall
surfaces of several containers are covered by a single sheet material.

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Claim *17* (Previously Presented): The container of claim *14*, wherein the rear wall
surfaces of several containers are arranged in the same flat or single-curved plane.

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Claim *18* (Previously Presented): The container of claim *17*, wherein the rear wall
surfaces of several containers are covered by a single sheet material.

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Claim *19* (Previously Presented): The container of claim *14*, wherein the unit is a
substantially rigid and self-bearing structure.

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Claim *20* (Previously Presented): The container of claim *19*, wherein the unit
comprises an enlarged front wall structure in which several cavities with openings are
provided to form the multiple containers.

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Claim *21* (Previously Presented): The container of claim *20*, wherein the front and
rear surfaces of the front wall structure are substantially parallel adjacent the cavities, to form
a general plate form.

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Claim *22* (Previously Presented): The container of claim *21*, wherein the front wall
structure has the overall shape of a disc.

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Claim *23* (Previously Presented): The container of claim *21*, wherein the several containers are positioned along at least one circle concentric with the disc periphery.

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Claim *24* (Previously Presented): The container of claim *20*, wherein the front and rear surfaces of the front wall structure are substantially single-curved and concentric adjacent the cavities.

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Claim *25* (Previously Presented): The container of claim *24*, wherein the front wall structure has the overall shape of a full or partial cylinder.

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Claim *26* (Previously Presented): The container of claim *25*, wherein the several containers are positioned over two dimensions of the cylinder surface.

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Claim *27* (Previously Presented): The container of claim 1, wherein the rear wall is folded in a continuous or discontinuous manner.

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Claim *28* (Previously Presented): The container of claim 1, wherein the rear wall has substantially the same overall shape as the rear surface of the front wall.

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Claim *29* (Previously Presented): The container of claim 1, wherein the rear wall is designed to be deformed elastically.

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Claim *30* (Previously Presented): The container of claim 1, wherein the rear wall is designed to be deformed inelastically or permanently.

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Claim 31 (Previously Presented): The container of claim 1, wherein the rear wall comprises a laminate.

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Claim 32 (Previously Presented): The container of claim 1, wherein the rear wall comprises a metal layer.

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Claim 33 (Previously Presented): The container of claim 1, wherein a temporary sealing is provided over the opening.

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Claim 34 (Previously Presented): The container of claim 33, wherein the sealing is rupturable or removable.

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Claim 35 (Previously Presented): The container of claim 33, wherein the sealing comprises a flat or single-curved sheet.

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Claim 36 (Previously Presented): The container of claim 1, wherein the liquid space volume is less than 25 microliter.

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Claim 37 (Previously Presented): The container of claim 1, wherein the opening diameter is between 10 and 1000 micron.

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Claim 38 (Previously Presented): The container of claim 1, wherein the front wall thickness is between 0.5 and 10 mm.

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Claim 39 (Previously Presented): The container of claim 1, wherein the maximum cavity diameter is about 1 to 20 mm.

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Claim 40 (Previously Presented): Pressurisable container for storing and ejecting liquid, the container comprising a) a front wall having or surrounding a cavity corresponding to the form of an open vessel, b) an opening in the front wall adapted for ejection of the liquid from the container, said opening defining a container axis, c) optionally a sealing over the opening adapted for temporary use, and d) a rear wall closing and sealing the open part of the front wall vessel to confine a space for the liquid in the container, the rear wall running at least partially perpendicular to the container axis and being displaceable or deformable for movement towards the opening to pressurize the container liquid, wherein

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in the vicinity of the cavity, the front wall has the overall shape, except for the cavity itself, of a flat or single-curved plate with substantially parallel or concentric front and rear surfaces,

at least part of the cavity is formed between the front and rear surfaces with the opening exposed on the front surface and the open part of the vessel exposed on the rear surface, and

the rear wall is attached to the rear surface.

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Claim 41 (Cancelled).

Claim 42 (Previously Presented): Pressurisable container for storing and ejecting liquid, the container comprising a) a front wall having or surrounding a cavity corresponding to the form of an open vessel, b) an opening in the front wall adapted for ejection of the liquid from the container, said opening defining a container axis, c) optionally a sealing over the

opening adapted for temporary use, and d) a rear wall closing and sealing the open part of the front wall vessel to confine a space for the liquid in the container, the rear wall running at least partially perpendicular to the container axis and being displaceable or deformable for movement towards the opening to pressurize the container liquid, wherein the front wall thickness, as measured along lines running through the cavity and normal to the vessel closed surface, increases in a direction off-set from the container axis.

Claims 43-53 (Cancelled).

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Claim ~~54~~ (Previously Presented): A method for ejecting liquid from a container, the container comprising a) a front wall having or surrounding a cavity corresponding to the form of an open vessel, b) an opening in the front wall adapted for ejection of the liquid from the container, said opening defining a container axis, c) optionally a sealing over the opening adapted for temporary use, and d) a rear wall closing and sealing the open part of the front wall vessel to confine a space for the liquid in the container, the rear wall running at least partially perpendicular to the container axis and being displaceable or deformable for movement towards the opening to pressurize the container liquid, the method comprising pressurizing the container by moving the rear wall at least partially in the axial direction and towards the opening with sufficient speed to eject liquid through the opening and hereunder stretching the rear wall, elastically or inelastically, to increase its surface.

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Claim ~~55~~ (Previously Presented): The method of claim ~~54~~, wherein the stretching step comprises the step of stretching the rear wall from a flat or single-curved form into a double-curved form.

Claim ⁵⁰56 (Previously Presented): The method of claim ⁴⁸54, wherein the stretching step comprises the step of deforming the rear wall until the rear wall is substantially corresponding to the cavity form.

Claim ⁵¹57 (Previously Presented): The method of claim ⁴⁸54, wherein the liquid is substantially evacuated from the container.

Claim ⁵²58 (Previously Presented): The method of claim ⁴⁸54, wherein the liquid is ejected from the opening with a speed of at least 5 m/s.

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Claim ⁵³59 (Previously Presented): The method of claim ⁴⁸54, wherein the liquid is ejected in the form of droplets of a diameter less than about 20 micron.

Claim ⁵⁴60 (Previously Presented): The method of claim ⁴⁸54, wherein the liquid is ejected in the form of a coherent jet.

Claim ⁵⁵61 (Previously Presented): The method of claim ⁴⁸54, wherein the liquid is allowed to pass through air a distance not less than 1 cm before hitting a target surface.

Claim ⁵⁶62 (Previously Presented): The method of claim ⁴⁸54, wherein the liquid is allowed to hit an eye.

Claim ⁵⁷63 (Previously Presented): The method of claim ⁴⁸54, wherein the liquid is allowed to hit a soft surface for at least partial penetration thereof.

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Claim *64* (Currently Amended): A device for ejecting liquid from a container, the container comprising a) a front wall having or surrounding a cavity corresponding to the form of an open vessel, b) an opening in the front wall adapted for ejection of the liquid from the container, said opening defining a container axis, c) optionally a sealing over the opening adapted for temporary use, and d) a rear wall closing and sealing the open part of the front wall vessel to confine a space for the liquid in the container, the rear wall running at least partially perpendicular to the container axis and being displaceable or deformable for movement towards the opening to pressurize the container liquid and substantially fill out the container cavity, e) a housing with a seat for the container adapted to receive a container having a distance between rear wall and front wall front surface of at least 0.5 mm, f) a ram arranged in a moving direction, in relation to the housing, substantially axial to the container when in the seat, and g) an actuator operative to drive the ram.
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Claim *65* (Previously Presented): The device of claim *64*, wherein the container when in the seat exposes substantially the whole part of the rear wall surface covering the cavity towards the ram.

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Claim *66* (Previously Presented): The device of claim *64*, wherein the seat is arranged to allow exchange of containers in the seat.

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Claim *67* (Previously Presented): The device of claim *66*, wherein the seat is arranged to allow exchange by sequential feeding of containers in a multiple container unit into the seat.

Claim ⁶²~~68~~ (Previously Presented): The device of claim ⁶¹~~67~~, wherein the seat comprises a track in which the containers can be fed.

Claim ⁶³~~69~~ (Previously Presented): The device of claim ⁶¹~~67~~, wherein the seat allows sequential feeding by rotation of a multiple container unit having containers arranged in a circle pattern.

Claim ⁶⁴~~70~~ (Previously Presented): The device of claim ⁵⁸~~64~~, further comprising a guiding arrangement arranged to secure alignment between the ramp and the container cavity.

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Claim ⁶⁵~~71~~ (Previously Presented): The device of claim ⁶⁴~~70~~, wherein the guiding arrangement comprises a releasable lock between the container and the housing or seat.

Claim ⁶⁶~~72~~ (Previously Presented): The device of claim ⁶⁴~~70~~, wherein the guiding arrangement is a releasable lock between the container and the ram.

Claim ⁶⁷~~73~~ (Previously Presented): The device of claim ⁶⁶~~72~~, wherein the lock comprises a structure locking the container when moved in the moving direction of the ram.

Claim ⁶⁸~~74~~ (Previously Presented): The device of claim ⁵⁸~~64~~, wherein the ram comprises a ram head and a ram piston.

Claim ⁶⁹~~75~~ (Previously Presented): The device of claim ⁶⁸~~74~~, wherein the front part of the ram head substantially conforms with the container cavity.

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Claim ~~76~~ (Currently Amended): A device for ejecting liquid from a container, the container comprising a) a front wall having or surrounding a cavity corresponding to the form of an open vessel, b) an opening in the front wall adapted for ejection of the liquid from the container, said opening defining a container axis, c) optionally a sealing over the opening adapted for temporary use, and d) a rear wall closing and sealing the open part of the front wall vessel to confine a space for the liquid in the container, the rear wall running at least partially perpendicular to the container axis and being displaceable or deformable for movement towards the opening to pressurize the container liquid and substantially fill out the container cavity, e) a housing with a seat for the container adapted to receive a container having a distance between rear wall and front wall front surface of at least 0.5 mm, f) a ram arranged in a moving direction, in relation to the housing, substantially axial to the container when in the seat, comprising a ram head and a ram piston, and g) an actuator operative to drive the ram, The device of claim 74, wherein at least a front part of the ram head front part is made of a soft material adaptable to the container cavity.

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Claim ~~77~~ (Previously Presented): The device of claim ~~74~~ *68*, wherein the actuator is arranged to displace the ram piston.

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Claim ~~78~~ (Previously Presented): The device of claim ~~64~~ *58*, wherein the actuator comprises an electrical arrangement for driving the ram.

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Claim ~~79~~ (Previously Presented): The device of claim ~~64~~ *58*, wherein the actuator comprises a mechanical arrangement for driving the ram.

Claim ⁷² ~~80~~ (Previously Presented): The device of claim ⁷¹ ~~79~~, wherein the mechanical arrangement comprises at least one spring for energy storage.

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Claim ⁷⁵ ~~81~~ (Currently Amended): A device for ejecting liquid from a container, the container comprising a) a front wall having or surrounding a cavity corresponding to the form of an open vessel, b) an opening in the front wall adapted for ejection of the liquid from the container, said opening defining a container axis, c) optionally a sealing over the opening adapted for temporary use, and d) a rear wall closing and sealing the open part of the front wall vessel to confine a space for the liquid in the container, the rear wall running at least partially perpendicular to the container axis and being displaceable or deformable for movement towards the opening to pressurize the container liquid and substantially fill out the container cavity, e) a housing with a seat for the container adapted to receive a container having a distance between rear wall and front wall front surface of at least 0.5 mm, f) a ram arranged in a moving direction, in relation to the housing, substantially axial to the container when in the seat, and g) an actuator operative to drive the ram. ~~The device of claim 64,~~
wherein the actuator comprises a transmission including at least one driving force transforming arrangement.

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Claim ⁷⁶ ~~82~~ (Previously Presented): The device of claim ⁷⁵ ~~81~~, wherein the transmission includes a screw and nut arrangement.

Claim ⁷⁷ ~~83~~ (Currently Amended): A device for ejecting liquid from a container, the container comprising a) a front wall having or surrounding a cavity corresponding to the form of an open vessel, b) an opening in the front wall adapted for ejection of the liquid from the container, said opening defining a container axis, c) optionally a sealing over the opening

adapted for temporary use, and d) a rear wall closing and sealing the open part of the front wall vessel to confine a space for the liquid in the container, the rear wall running at least partially perpendicular to the container axis and being displaceable or deformable for movement towards the opening to pressurize the container liquid and substantially fill out the container cavity, e) a housing with a seat for the container adapted to receive a container having a distance between rear wall and front wall front surface of at least 0.5 mm, f) a ram arranged in a moving direction, in relation to the housing, substantially axial to the container when in the seat, g) an actuator operative to drive the ram, and h) The device of claim 64, further comprising a damper arranged to affect the ram movement.

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Claim 84 (Currently Amended): A device for ejecting liquid from a container, the container comprising a) a front wall having or surrounding a cavity corresponding to the form of an open vessel, b) an opening in the front wall adapted for ejection of the liquid from the container, said opening defining a container axis, c) optionally a sealing over the opening adapted for temporary use, and d) a rear wall closing and sealing the open part of the front wall vessel to confine a space for the liquid in the container, the rear wall running at least partially perpendicular to the container axis and being displaceable or deformable for movement towards the opening to pressurize the container liquid and substantially fill out the container cavity, e) a housing with a seat for the container adapted to receive a container having a distance between rear wall and front wall front surface of at least 0.5 mm, f) a ram arranged in a moving direction, in relation to the housing, substantially axial to the container when in the seat, g) an actuator operative to drive the ram, and h) The device of claim 64, further comprising a de-sealing tool arranged for breakage or removal of a sealing over the container opening.

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Claim *85* (Previously Presented): The device of claim *84*, wherein the tool is arranged to the rear of the container when in the seat and arranged for forward movement during de-sealing.

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Claim *86* (Previously Presented): The device of claim *85*, wherein the tool is arranged to pass through or past the front wall during its forward movement to attack the sealing.

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Claim *87* (Previously Presented): The device of claim *86*, wherein the tool and container are arranged to cooperate as a guiding arrangement arranged to secure alignment between the ram and the container activity.
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Claim *88* (Previously Presented): The device of claim *85*, wherein the tool is connected to the ram for common movement therewith.

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Claim *89* (Previously Presented): The device of claim *88*, wherein the tool is connected to the ram so as to hit the sealing before the ram hits the container.

Claims 90-91 (Cancelled).

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Claim *97* (Previously Amended): A kit or combination comprising a) a container according to claim 1 and b) a device having a ram arranged to displace or deform the container rear wall to pressurize the container liquid.

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Claim *93* (Previously Presented): The container of claim 1, wherein the liquid space volume is less than 15 microliter.

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Claim *94* (Previously Presented): The container of claim 1, wherein the liquid space volume is less than 10 microliter.

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Claim *95* (Previously Presented): The container of claim 1, wherein the opening diameter is between 20 and 800 micron.

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Claim *96* (Previously Presented): The container of claim 1, wherein the front wall thickness is between 1 and 5 mm.

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Claim *97* (Previously Presented): The container of claim 1, wherein the maximum cavity diameter is between 2 and 10 mm.